

## EAST Search History

| Ref # | Hits | Search Query   | DBs      | Default Operator | Plurals | Time Stamp       |
|-------|------|--|----------|------------------|---------|------------------|
| L1    | 5    | (JEAN near LIONEL OUVRAY near JEAN-CLAUDE).in.   | USPAT    | OR               | OFF     | 2007/03/18 15:37 |
| L2    | 0    | 1 and (secure ADJ terminal smart ADJ card).CLM.  | USPAT    | OR               | OFF     | 2007/03/18 15:39 |
| L3    | 1    | (secure ADJ terminal SAME (dual two second plurality) near3 (smart ADJ card circuit)).CLM. | US-PGPUB | OR               | OFF     | 2007/03/18 15:41 |

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 5    | (JEAN near LIONEL OUVRAY near JEAN-CLAUDE).in.   | USPAT   | OR               | OFF     | 2007/03/18 15:37 |
| L2    | 0    | 1 and (secure ADJ terminal smart ADJ card).CLM.  | USPAT   | OR               | OFF     | 2007/03/18 15:39 |
| L3    | 1    | (secure ADJ terminal SAME (dual two second plurality) near3 (smart ADJ card circuit)).CLM.                             | US-PGPUB  | OR               | OFF     | 2007/03/18 15:41 |
| S1    | 0    | 713/200.ccls. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT   | OR               | OFF     | 2004/12/17 12:03 |
| S2    | 1    | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT   | OR               | OFF     | 2003/10/28 11:49 |
| S3    | 0    | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$5 with electronic ad4 security adj4 circuit) | USPAT   | OR               | OFF     | 2004/12/17 12:29 |
| S4    | 3    | (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT   | OR               | OFF     | 2003/10/29 14:08 |
| S5    | 0    | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$4 with security with circuit)                | USPAT   | OR               | OFF     | 2003/10/28 10:24 |
| S6    | 0    | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$4 with security with circuit)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2003/10/28 10:25 |
| S7    | 0    | (secure with terminal) and (smart adj4 card\$4) and (remov\$4 with security with circuit)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2003/10/28 10:25 |
| S8    | 53   | (secure with terminal) and (smart adj4 card\$4) and (security with circuit)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2003/10/28 10:25 |
| S9    | 0    | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4) and (secret adj4 code)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2003/10/28 10:26 |

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S10 | 7   | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/10/28 10:31 |
| S11 | 3   | (secure adj terminal) and (smart adj card\$4) and (circuit) and (counter)  | USPAT;<br>EPO   | OR | OFF | 2003/10/28 10:38 |
| S12 | 14  | "696016"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/10/28 12:30 |
| S13 | 26  | "157303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/10/28 15:04 |
| S14 | 1   | ("5845069").PN.  | USPAT;<br>USOCR   | OR | OFF | 2003/10/28 14:27 |
| S15 | 32  | "0157303"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/10/28 15:11 |
| S16 | 16  | tamada-masuo.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/10/28 17:29 |
| S17 | 1   | ("4879645").PN.  | USPAT;<br>USOCR   | OR | OFF | 2003/10/28 15:38 |
| S18 | 1   | ("5845069").PN.  | USPAT;<br>USOCR   | OR | OFF | 2003/10/29 14:14 |
| S19 | 1   | (secure with terminal) and (smart adj4 card\$4) and (pin) and (verif\$6 with certificate) and (divid\$4 with class\$2) | USPAT   | OR | OFF | 2003/10/29 10:24 |
| S20 | 5   | 713/200.ccls. and (secure with terminal) and (smart adj4 card\$4) and (secret with code)                               | USPAT   | OR | OFF | 2003/10/29 14:12 |
| S21 | 1   | ("6539093").PN.  | USPAT;<br>USOCR   | OR | OFF | 2003/10/29 14:14 |
| S22 | 5   | (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT   | OR | OFF | 2004/12/12 13:29 |
| S23 | 202 | Gemplus.as.  | USPAT   | OR | OFF | 2004/12/12 13:32 |
| S24 | 0   | Gemplus.as. and removable adj security adj circuit   | USPAT   | OR | OFF | 2004/12/12 13:33 |
| S25 | 2   | removable adj security adj circuit   | USPAT   | OR | OFF | 2004/12/12 13:44 |

## EAST Search History

|     |     |   |       |    |     |                  |
|-----|-----|---|-------|----|-----|------------------|
| S26 | 7   | (smart IC) adj card with removable adj security   | USPAT | OR | OFF | 2004/12/12 14:16 |
| S27 | 3   | (removable detachable)adj secu\$5 adj circuit   | USPAT | OR | OFF | 2004/12/12 13:45 |
| S28 | 106 | (two (more near2 one))adj (smart IC)adj card  | USPAT | OR | OFF | 2004/12/12 14:24 |
| S29 | 0   | (two (more near2 one))adj (smart IC)adj card with external adj security adjcircuit                                      | USPAT | OR | OFF | 2004/12/12 14:25 |
| S30 | 5   | (smart IC)adj card with external adj security adjcircuit  | USPAT | OR | OFF | 2004/12/12 14:26 |
| S31 | 0   | (smart IC)adj card with external adj security adj circuit   | USPAT | OR | OFF | 2004/12/12 14:26 |
| S32 | 0   | (smart IC)adj card with external adj security adj (circuit device card)   | USPAT | OR | OFF | 2004/12/12 14:27 |
| S33 | 10  | external adj security adj (circuit device card)   | USPAT | OR | OFF | 2004/12/12 14:27 |
| S34 | 0   | (secure adj application adj micromodule) with smart adj card  | USPAT | OR | OFF | 2004/12/17 12:04 |
| S35 | 0   | (secure adj application adj micromodule)  | USPAT | OR | OFF | 2004/12/17 12:05 |
| S36 | 0   | (secure adj application adj ((micromodule)micro-module))  | USPAT | OR | OFF | 2004/12/17 12:10 |
| S37 | 14  | (secure adj application adj ((micromodule)micro-module) SAM )adj circuit  | USPAT | OR | OFF | 2004/12/17 12:10 |
| S38 | 2   | ("6532122").URPN.   | USPAT | OR | OFF | 2004/12/17 12:13 |
| S39 | 0   | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$5 with electronic ad4 security adj4 circuit)  | USPAT | OR | OFF | 2004/12/17 12:29 |
| S40 | 0   | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$5 with electronic adj4 security adj4 circuit) | USPAT | OR | OFF | 2004/12/17 12:30 |
| S41 | 0   | smart adj card with external adj security adj circuit   | USPAT | OR | OFF | 2004/12/17 12:31 |
| S42 | 0   | smart adj card and external adj security adj circuit  | USPAT | OR | OFF | 2004/12/17 12:32 |
| S43 | 1   | external adj security adj circuit   | USPAT | OR | OFF | 2004/12/17 12:34 |
| S44 | 2   | removable adj security adj circuit  | USPAT | OR | OFF | 2004/12/17 12:41 |
| S45 | 0   | (removable external detached) adj security adj circuit and smart adj card   | USPAT | OR | OFF | 2004/12/17 12:42 |
| S46 | 3   | (removable external detached) adj security adj circuit  | USPAT | OR | OFF | 2004/12/17 16:01 |

## EAST Search History

|     |       |  |                              |    |     |                  |
|-----|-------|--|------------------------------|----|-----|------------------|
| S47 | 231   | 713/182.ccls.  | USPAT                        | OR | OFF | 2004/12/17 12:46 |
| S48 | 54    | 713/182.ccls. and smart adj card   | USPAT                        | OR | OFF | 2004/12/17 13:58 |
| S49 | 0     | (dual two double) adj smart adj card<br>adj (authentic\$3 verif\$5)                              | USPAT                        | OR | OFF | 2004/12/17 14:00 |
| S50 | 0     | (dual two double " more than one")<br>adj smart adj card adj (authentic\$3<br>verif\$5)          | USPAT                        | OR | OFF | 2004/12/17 14:00 |
| S51 | 31    | (dual two double " more than one")<br>adj smart adj card   | USPAT                        | OR | OFF | 2004/12/17 14:00 |
| S52 | 4     | ("5979773").URPN.  | USPAT                        | OR | OFF | 2004/12/17 14:06 |
| S53 | 4     | ("5979773").URPN.  | USPAT                        | OR | OFF | 2004/12/17 14:08 |
| S54 | 42    | ("4879645").URPN.  | USPAT                        | OR | OFF | 2004/12/17 14:59 |
| S55 | 42    | ("4879645").URPN.  | USPAT                        | OR | OFF | 2004/12/17 15:00 |
| S56 | 1     | ("4879645").PN.  | USPAT                        | OR | OFF | 2004/12/17 15:00 |
| S57 | 42    | ("4879645").URPN.  | USPAT                        | OR | OFF | 2004/12/17 15:02 |
| S58 | 42    | ("4879645").URPN.  | USPAT                        | OR | OFF | 2004/12/17 15:00 |
| S59 | 7     | ("4352011"   "4439670"   "4453074"  <br>"4484067"   "4558176"   "4583196"  <br>"4740890").PN.    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2004/12/17 15:01 |
| S60 | 2     | S57 and smart adj card   | USPAT                        | OR | OFF | 2004/12/17 15:02 |
| S61 | 992   | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)                            | USPAT                        | OR | OFF | 2004/12/17 16:02 |
| S62 | 0     | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)<br>with request with count | USPAT                        | OR | OFF | 2004/12/17 15:44 |
| S63 | 21    | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)<br>with request            | USPAT                        | OR | OFF | 2004/12/17 15:44 |
| S64 | 3     | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)<br>with request and count  | USPAT                        | OR | OFF | 2004/12/17 15:46 |
| S65 | 3     | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)<br>with count              | USPAT                        | OR | OFF | 2004/12/17 15:49 |
| S66 | 3     | (smart adj card smart-card smart<br>near1 card) with (reader terminal)<br>with count             | USPAT                        | OR | OFF | 2004/12/17 15:52 |
| S67 | 87997 | (reader terminal) access with count  | USPAT                        | OR | OFF | 2004/12/17 15:53 |
| S68 | 2876  | S67 and (smart adj card smart-card<br>smart near1 card)  | USPAT                        | OR | OFF | 2004/12/17 15:54 |
| S69 | 1     | (reader terminal) adj access with<br>count   | USPAT                        | OR | OFF | 2004/12/21 13:47 |

## EAST Search History

|     |      |   |               |    |     |                  |
|-----|------|---|---------------|----|-----|------------------|
| S70 | 17   | (reader terminal device) adj access with count  | USPAT         | OR | OFF | 2004/12/17 15:56 |
| S71 | 1    | S70 and (smart adj card smart-card smart near1 card)  | USPAT         | OR | OFF | 2004/12/17 15:54 |
| S72 | 1    | (reader terminal device) adj access with count and (smart adj card smart-card smart near1 card)   | USPAT         | OR | OFF | 2004/12/17 15:56 |
| S73 | 308  | (removable external detached) adj security  | USPAT         | OR | OFF | 2004/12/17 16:09 |
| S74 | 2    | S73 with (smart adj card smart-card smart near1 card) adj (reader terminal)   | USPAT         | OR | OFF | 2004/12/17 16:06 |
| S75 | 8    | S73 and (smart adj card smart-card smart near1 card) adj (reader terminal)  | USPAT         | OR | OFF | 2004/12/17 16:10 |
| S76 | 1    | (removable external detached) adj security with count\$3  | USPAT         | OR | OFF | 2004/12/17 16:09 |
| S77 | 37   | (removable external detached) adj security with (count\$3 access\$3)  | USPAT         | OR | OFF | 2004/12/17 16:10 |
| S78 | 1    | S77 and (smart adj card smart-card smart near1 card) adj (reader terminal)  | USPAT         | OR | OFF | 2004/12/17 16:10 |
| S79 | 1    | (removable external detached) adj security with (count\$3 access\$3) and (smart adj card smart-card smart near1 card) adj (reader terminal) | USPAT         | OR | OFF | 2004/12/17 16:11 |
| S80 | 1    | count\$3 with ((reader terminal) adj access )   | USPAT         | OR | OFF | 2004/12/21 13:48 |
| S81 | 66   | count\$3 with ((reader terminal device) adj (request access))   | USPAT         | OR | OFF | 2004/12/21 14:03 |
| S82 | 1    | count\$3 with ((reader terminal device) adj (request access)).ti.   | USPAT         | OR | OFF | 2004/12/21 13:48 |
| S83 | 1855 | count\$3 with (request access) with (reader terminal device)  | USPAT;<br>EPO | OR | OFF | 2004/12/21 14:04 |
| S84 | 33   | count\$3 adj (request access) with (reader terminal device)   | USPAT;<br>EPO | OR | OFF | 2004/12/21 15:21 |
| S85 | 12   | ("6018717").URPN.   | USPAT         | OR | OFF | 2004/12/21 14:09 |
| S86 | 12   | ("6018717").URPN.   | USPAT         | OR | OFF | 2004/12/21 14:09 |
| S87 | 12   | ("6018717").URPN.   | USPAT         | OR | OFF | 2004/12/21 14:09 |
| S88 | 1    | authenticat\$3 adj counter with (terminal device reader)  | USPAT;<br>EPO | OR | OFF | 2004/12/21 19:10 |
| S89 | 0    | authenticat\$3 adj counter.ti.  | USPAT;<br>EPO | OR | OFF | 2004/12/21 15:37 |
| S90 | 6    | authenticat\$3 adj counter  | USPAT;<br>EPO | OR | OFF | 2004/12/21 15:37 |

## EAST Search History

|          |       |   |               |    |     |                  |
|----------|-------|---|---------------|----|-----|------------------|
| S91      | 10    | (US-4879645-\$ or US-5845069-\$ or US-5979773-\$ or US-6065679-\$ or US-6539093-\$ or US-6606744-\$ or US-6694436-\$ or US-6018717-\$ or US-6470451-\$ or US-6577733-\$).did. | USPAT         | OR | OFF | 2004/12/21 19:02 |
| S92      | 4     | S91 and count   | USPAT         | OR | OFF | 2004/12/21 19:03 |
| S93      | 59457 | counter with (terminal device reader)   | USPAT;<br>EPO | OR | OFF | 2004/12/21 19:11 |
| S95      | 269   | counter near2 (terminal device reader) near4 predetermined  | USPAT;<br>EPO | OR | OFF | 2004/12/21 20:19 |
| S96      | 3     | counter near2 (terminal device reader) near4 predetermined near2 (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO | OR | OFF | 2004/12/21 20:18 |
| S97      | 5     | count\$3 with request with (terminal device reader) with(predetermined pre-determined)with (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO | OR | OFF | 2004/12/21 20:23 |
| S98      | 0     | count\$3 adj request with (program terminal device reader) with(predetermined pre-determined) with (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO | OR | OFF | 2004/12/21 19:24 |
| S99      | 42    | count\$3 adj request with (program terminal device reader)  | USPAT;<br>EPO | OR | OFF | 2004/12/21 19:25 |
| S10<br>0 | 163   | count\$3 with (request execution) with (terminal device reader) with(predetermined pre-determined)  | USPAT;<br>EPO | OR | OFF | 2004/12/21 20:23 |
| S10<br>1 | 8     | ("5940589").URPN.   | USPAT         | OR | OFF | 2004/12/21 20:25 |
| S10<br>2 | 2     | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)   | USPAT         | OR | OFF | 2004/12/26 21:15 |
| S10<br>3 | 25    | "04328"   | USPAT;<br>EPO | OR | OFF | 2004/12/26 21:13 |
| S10<br>4 | 0     | "04328"   | EPO           | OR | OFF | 2004/12/26 21:16 |
| S10<br>5 | 25    | "04328"   | USPAT;<br>EPO | OR | OFF | 2004/12/26 21:14 |
| S10<br>6 | 2     | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)   | USPAT;<br>EPO | OR | OFF | 2004/12/26 21:16 |
| S10<br>7 | 1     | "4328"  | EPO           | OR | OFF | 2004/12/26 21:17 |
| S10<br>8 | 0     | WO000954328   | EPO           | OR | OFF | 2004/12/26 21:17 |
| S10<br>9 | 1     | WO000004328A1   | EPO           | OR | OFF | 2004/12/26 21:18 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S11<br>0 | 0    | WO009504328   | EPO   | OR | OFF | 2004/12/26 21:19 |
| S11<br>1 | 0    | 95/04328  | EPO   | OR | OFF | 2004/12/26 21:19 |
| S11<br>2 | 1    | "4328"  | EPO   | OR | OFF | 2004/12/26 21:20 |
| S11<br>3 | 489  | "4328"  | USPAT;<br>EPO; JPO                                      | OR | OFF | 2004/12/26 21:21 |
| S11<br>4 | 4    | "9504328"   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2004/12/26 22:06 |
| S11<br>5 | 1    | external adj security adj circuit   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2004/12/26 22:08 |
| S11<br>6 | 1    | external adj security adj (circuit<br>device)   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2004/12/26 22:09 |
| S11<br>7 | 13   | external adj security adj (circuit<br>device)   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2004/12/26 22:27 |
| S11<br>8 | 2483 | tamada.in.  | USPAT;<br>EPO; JPO                                      | OR | OFF | 2004/12/26 22:29 |
| S11<br>9 | 202  | tamada.in. and toshiba.as.  | USPAT;<br>EPO; JPO                                      | OR | OFF | 2004/12/26 22:30 |
| S12<br>0 | 19   | tamada.in. and toshiba.as.  | USPAT   | OR | OFF | 2004/12/26 22:30 |
| S12<br>1 | 0    | 713/200.ccls. and (manag\$4 with<br>secure with terminal) and (smart adj4<br>card\$4)   | USPAT   | OR | OFF | 2005/06/02 13:43 |
| S12<br>2 | 2    | "713".clas. and (manag\$4 with secure<br>with terminal) and (smart adj4<br>card\$4)   | USPAT   | OR | OFF | 2005/06/02 13:43 |
| S12<br>3 | 0    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$5 with electronic ad4 security<br>adj4 circuit) | USPAT   | OR | OFF | 2005/06/02 13:43 |
| S12<br>4 | 6    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4)  | USPAT   | OR | OFF | 2005/06/02 13:43 |
| S12<br>5 | 0    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$4 with security with circuit)                   | USPAT   | OR | OFF | 2005/06/02 13:43 |
| S12<br>6 | 0    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$4 with security with circuit)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |



## EAST Search History

|          |    |  |   |    |     |                  |
|----------|----|--|---|----|-----|------------------|
| S12<br>7 | 1  | (secure with terminal) and (smart adj4 card\$4) and (remov\$4 with security with circuit)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S12<br>8 | 75 | (secure with terminal) and (smart adj4 card\$4) and (security with circuit)                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S12<br>9 | 0  | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4) and (secret adj4 code) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S13<br>0 | 9  | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S13<br>1 | 4  | (secure adj terminal) and (smart adj card\$4) and (circuit) and (counter)                                      | USPAT;<br>EPO   | OR | OFF | 2005/06/02 13:43 |
| S13<br>2 | 15 | "696016"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S13<br>3 | 31 | "157303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S13<br>4 | 1  | ("5845069").PN.  | USPAT;<br>USOCR   | OR | OFF | 2005/06/02 13:43 |
| S13<br>5 | 40 | "0157303"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S13<br>6 | 16 | tamada-masuo.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/02 13:43 |
| S13<br>7 | 1  | ("4879645").PN.  | USPAT;<br>USOCR   | OR | OFF | 2005/06/02 13:43 |
| S13<br>8 | 1  | ("5845069").PN.  | USPAT;<br>USOCR   | OR | OFF | 2005/06/02 13:43 |

## EAST Search History

|          |     |  |                 |    |     |                  |
|----------|-----|--|-----------------|----|-----|------------------|
| S13<br>9 | 2   | (secure with terminal) and (smart adj4 card\$4) and (pin) and (verif\$6 with certificate) and (divid\$4 with class\$2) | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>0 | 6   | 713/200.ccls. and (secure with terminal) and (smart adj4 card\$4) and (secret with code)                               | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>1 | 1   | ("6539093").PN.  | USPAT;<br>USOCR | OR | OFF | 2005/06/02 13:43 |
| S14<br>2 | 6   | (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>3 | 205 | Gemplus.as.  | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>4 | 0   | Gemplus.as. and removable adj security adj circuit   | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>5 | 2   | removable adj security adj circuit   | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>6 | 8   | (smart IC) adj card with removable adj security  | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>7 | 3   | (removable detachable)adj secu\$5 adj circuit  | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S14<br>8 | 113 | (two (more near2 one))adj (smart IC)adj card   | USPAT           | OR | OFF | 2005/06/02 16:28 |
| S14<br>9 | 0   | (two (more near2 one))adj (smart IC)adj card with external adj security adjcircuit                                     | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>0 | 5   | (smart IC)adj card with external adj security adjcircuit   | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>1 | 0   | (smart IC)adj card with external adj security adj circuit  | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>2 | 0   | (smart IC)adj card with external adj security adj (circuit device card)  | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>3 | 13  | external adj security adj (circuit device card)  | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>4 | 0   | (secure adj application adj micromodule) with smart adj card   | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>5 | 0   | (secure adj application adj micromodule)   | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>6 | 0   | (secure adj application adj ((micromodule)micro-module))   | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>7 | 14  | (secure adj application adj ((micromodule)micro-module) SAM )adj circuit   | USPAT           | OR | OFF | 2005/06/02 13:43 |
| S15<br>8 | 2   | ("6532122").URPN.  | USPAT           | OR | OFF | 2005/06/02 13:43 |

## EAST Search History

|          |     |  |       |    |     |                  |
|----------|-----|--|-------|----|-----|------------------|
| S15<br>9 | 0   | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$5 with electronic ad4 security<br>adj4 circuit)  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>0 | 0   | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$5 with electronic adj4 security<br>adj4 circuit) | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>1 | 0   | smart adj card with external adj<br>security adj circuit   | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>2 | 0   | smart adj card and external adj<br>security adj circuit  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>3 | 1   | external adj security adj circuit  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>4 | 2   | removable adj security adj circuit   | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>5 | 0   | (removable external detached) adj<br>security adj circuit and smart adj card   | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>6 | 3   | (removable external detached) adj<br>security adj circuit  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>7 | 267 | 713/182.ccls.  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>8 | 65  | 713/182.ccls. and smart adj card   | USPAT | OR | OFF | 2005/06/02 13:43 |
| S16<br>9 | 0   | (dual two double) adj smart adj card<br>adj (authentic\$3 verif\$5)  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>0 | 0   | (dual two double " more than one")<br>adj smart adj card adj (authentic\$3<br>verif\$5)  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>1 | 36  | (dual two double " more than one")<br>adj smart adj card   | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>2 | 5   | ("5979773").URPN.  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>3 | 5   | ("5979773").URPN.  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>4 | 42  | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>5 | 42  | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>6 | 1   | ("4879645").PN.  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>7 | 42  | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/02 13:43 |
| S17<br>8 | 42  | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/02 13:43 |

## EAST Search History

|          |       |   |                              |    |     |                  |
|----------|-------|---|------------------------------|----|-----|------------------|
| S17<br>9 | 7     | ("4352011"   "4439670"   "4453074"   "4484067"   "4558176"   "4583196"   "4740890").PN.         | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/06/02 13:43 |
| S18<br>0 | 2     | S177 and smart adj card   | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>1 | 1071  | (smart adj card smart-card smart near1 card) adj (reader terminal)                              | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>2 | 0     | (smart adj card smart-card smart near1 card) adj (reader terminal) with request with count      | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>3 | 25    | (smart adj card smart-card smart near1 card) adj (reader terminal) with request                 | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>4 | 5     | (smart adj card smart-card smart near1 card) adj (reader terminal) with request and count       | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>5 | 3     | (smart adj card smart-card smart near1 card) adj (reader terminal) with count                   | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>6 | 3     | (smart adj card smart-card smart near1 card) with (reader terminal) with count                  | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>7 | 91235 | (reader terminal) access with count   | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>8 | 3083  | S187 and (smart adj card smart-card smart near1 card)   | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S18<br>9 | 1     | (reader terminal) adj access with count   | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S19<br>0 | 19    | (reader terminal device) adj access with count  | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S19<br>1 | 1     | S190 and (smart adj card smart-card smart near1 card)   | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S19<br>2 | 1     | (reader terminal device) adj access with count and (smart adj card smart-card smart near1 card) | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S19<br>3 | 326   | (removable external detached) adj security  | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S19<br>4 | 2     | S193 with (smart adj card smart-card smart near1 card) adj (reader terminal)                    | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S19<br>5 | 9     | S193 and (smart adj card smart-card smart near1 card) adj (reader terminal)                     | USPAT                        | OR | OFF | 2005/06/02 13:43 |
| S19<br>6 | 1     | (removable external detached) adj security with count\$3  | USPAT                        | OR | OFF | 2005/06/02 13:43 |

## EAST Search History

|          |       |   |               |    |     |                  |
|----------|-------|---|---------------|----|-----|------------------|
| S19<br>7 | 38    | (removable external detached) adj security with (count\$3 access\$3)  | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S19<br>8 | 1     | S197 and (smart adj card smart-card smart near1 card) adj (reader terminal)   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S19<br>9 | 1     | (removable external detached) adj security with (count\$3 access\$3) and (smart adj card smart-card smart near1 card) adj (reader terminal)                                   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S20<br>0 | 1     | count\$3 with ((reader terminal) adj access )   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S20<br>1 | 1     | count\$3 with ((reader terminal device) adj (request access)).ti.   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S20<br>2 | 70    | count\$3 with ((reader terminal device) adj (request access))   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S20<br>3 | 1904  | count\$3 with (request access) with (reader terminal device)  | USPAT;<br>EPO | OR | OFF | 2005/06/02 13:43 |
| S20<br>4 | 36    | count\$3 adj (request access) with (reader terminal device)   | USPAT;<br>EPO | OR | OFF | 2005/06/02 13:43 |
| S20<br>5 | 14    | ("6018717").URPN.   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S20<br>6 | 14    | ("6018717").URPN.   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S20<br>7 | 14    | ("6018717").URPN.   | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S20<br>8 | 1     | authenticat\$3 adj counter with (terminal device reader)  | USPAT;<br>EPO | OR | OFF | 2005/06/02 13:43 |
| S20<br>9 | 0     | authenticat\$3 adj counter.ti.  | USPAT;<br>EPO | OR | OFF | 2005/06/02 13:43 |
| S21<br>0 | 7     | authenticat\$3 adj counter  | USPAT;<br>EPO | OR | OFF | 2005/06/02 13:43 |
| S21<br>1 | 10    | (US-4879645-\$ or US-5845069-\$ or US-5979773-\$ or US-6065679-\$ or US-6539093-\$ or US-6606744-\$ or US-6694436-\$ or US-6018717-\$ or US-6470451-\$ or US-6577733-\$).did. | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S21<br>2 | 4     | S211 and count  | USPAT         | OR | OFF | 2005/06/02 13:43 |
| S21<br>3 | 60553 | counter with (terminal device reader)   | USPAT;<br>EPO | OR | OFF | 2005/06/02 13:43 |
| S21<br>4 | 3     | counter near2 (terminal device reader) near4 predetermined near2 (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO | OR | OFF | 2005/06/02 13:43 |

## EAST Search History

|          |     |  |                    |    |     |                  |
|----------|-----|--|--------------------|----|-----|------------------|
| S21<br>5 | 6   | count\$3 with request with (terminal device reader) with(predetermined pre-determined)with (halt\$3 stop\$4 restrict\$3)         | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S21<br>6 | 0   | count\$3 adj request with (program terminal device reader) with(predetermined pre-determined) with (halt\$3 stop\$4 restrict\$3) | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S21<br>7 | 42  | count\$3 adj request with (program terminal device reader)   | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S21<br>8 | 271 | counter near2 (terminal device reader) near4 predetermined   | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S21<br>9 | 170 | count\$3 with (request execution) with (terminal device reader) with(predetermined pre-determined)                               | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S22<br>0 | 9   | ("5940589").URPN.  | USPAT              | OR | OFF | 2005/06/02 13:43 |
| S22<br>1 | 2   | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT              | OR | OFF | 2005/06/02 13:43 |
| S22<br>2 | 27  | "04328"  | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S22<br>3 | 0   | "04328"  | EPO                | OR | OFF | 2005/06/02 13:43 |
| S22<br>4 | 27  | "04328"  | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S22<br>5 | 2   | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT;<br>EPO      | OR | OFF | 2005/06/02 13:43 |
| S22<br>6 | 1   | "4328"   | EPO                | OR | OFF | 2005/06/02 13:43 |
| S22<br>7 | 0   | WO000954328  | EPO                | OR | OFF | 2005/06/02 13:43 |
| S22<br>8 | 1   | WO000004328A1  | EPO                | OR | OFF | 2005/06/02 13:43 |
| S22<br>9 | 0   | WO009504328  | EPO                | OR | OFF | 2005/06/02 13:43 |
| S23<br>0 | 0   | 95/04328   | EPO                | OR | OFF | 2005/06/02 13:43 |
| S23<br>1 | 1   | "4328"   | EPO                | OR | OFF | 2005/06/02 13:43 |
| S23<br>2 | 515 | "4328"   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/02 13:43 |
| S23<br>3 | 4   | "9504328"  | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/02 13:43 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S23<br>4 | 1    | external adj security adj circuit   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2005/06/02 13:43 |
| S23<br>5 | 1    | external adj security adj (circuit<br>device)   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2005/06/02 13:43 |
| S23<br>6 | 15   | external adj security adj (circuit<br>device)   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2005/06/02 13:43 |
| S23<br>7 | 2554 | tamada.in.  | USPAT;<br>EPO; JPO                                      | OR | OFF | 2005/06/02 13:43 |
| S23<br>8 | 210  | tamada.in. and toshiba.as.  | USPAT;<br>EPO; JPO                                      | OR | OFF | 2005/06/02 13:43 |
| S23<br>9 | 20   | tamada.in. and toshiba.as.  | USPAT   | OR | OFF | 2005/06/02 13:43 |
| S24<br>0 | 1    | (two (more near2 one))adj (smart<br>IC)adj card same counter  | USPAT   | OR | OFF | 2005/06/02 16:29 |
| S24<br>1 | 129  | "smart card" same counter   | USPAT   | OR | OFF | 2005/06/02 16:29 |
| S24<br>3 | 0    | 713/200.ccls. and (manag\$4 with<br>secure with terminal) and (smart adj4<br>card\$4)   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S24<br>4 | 2    | "713".clas. and (manag\$4 with secure<br>with terminal) and (smart adj4<br>card\$4)   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S24<br>5 | 0    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$5 with electronic ad4 security<br>adj4 circuit) | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S24<br>6 | 6    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4)  | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S24<br>7 | 0    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$4 with security with circuit)                   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S24<br>8 | 0    | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$4 with security with circuit)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S24<br>9 | 1    | (secure with terminal) and (smart adj4<br>card\$4) and (remov\$4 with security<br>with circuit)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S25<br>0 | 75   | (secure with terminal) and (smart adj4<br>card\$4) and (security with circuit)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |    |  |   |    |     |                  |
|----------|----|--|---|----|-----|------------------|
| S25<br>1 | 0  | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4) and (secret adj4 code)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S25<br>2 | 9  | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S25<br>3 | 4  | (secure adj terminal) and (smart adj card\$4) and (circuit) and (counter)  | USPAT;<br>EPO   | OR | OFF | 2005/06/12 16:20 |
| S25<br>4 | 16 | "696016"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S25<br>5 | 31 | "157303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S25<br>6 | 1  | ("5845069").PN.  | USPAT;<br>USOCR   | OR | OFF | 2005/06/12 16:20 |
| S25<br>7 | 40 | "0157303"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S25<br>8 | 16 | tamada-masuo.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S25<br>9 | 1  | ("4879645").PN.  | USPAT;<br>USOCR   | OR | OFF | 2005/06/12 16:20 |
| S26<br>0 | 1  | ("5845069").PN.  | USPAT;<br>USOCR   | OR | OFF | 2005/06/12 16:20 |
| S26<br>1 | 2  | (secure with terminal) and (smart adj4 card\$4) and (pin) and (verif\$6 with certificate) and (divid\$4 with class\$2) | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S26<br>2 | 6  | 713/200.ccls. and (secure with terminal) and (smart adj4 card\$4) and (secret with code)                               | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S26<br>3 | 1  | ("6539093").PN.  | USPAT;<br>USOCR   | OR | OFF | 2005/06/12 16:20 |
| S26<br>4 | 6  | (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT   | OR | OFF | 2005/06/12 16:20 |



## EAST Search History

|          |     |   |       |    |     |                  |
|----------|-----|---|-------|----|-----|------------------|
| S26<br>5 | 206 | Gemplus.as.   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S26<br>6 | 0   | Gemplus.as. and removable adj security adj circuit  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S26<br>7 | 2   | removable adj security adj circuit  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S26<br>8 | 8   | (smart IC) adj card with removable adj security   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S26<br>9 | 3   | (removable detachable)adj secu\$5 adj circuit   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>0 | 113 | (two (more near2 one))adj (smart IC)adj card  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>1 | 0   | (two (more near2 one))adj (smart IC)adj card with external adj security adjcircuit                                      | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>2 | 5   | (smart IC)adj card with external adj security adjcircuit  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>3 | 0   | (smart IC)adj card with external adj security adj circuit   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>4 | 0   | (smart IC)adj card with external adj security adj (circuit device card)   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>5 | 13  | external adj security adj (circuit device card)   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>6 | 0   | (secure adj application adj micromodule) with smart adj card  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>7 | 0   | (secure adj application adj micromodule)  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>8 | 0   | (secure adj application adj ((micromodule)micro-module))  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S27<br>9 | 14  | (secure adj application adj ((micromodule)micro-module) SAM )adj circuit  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S28<br>0 | 2   | ("6532122").URPN.   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S28<br>1 | 0   | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$5 with electronic ad4 security adj4 circuit)  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S28<br>2 | 0   | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$5 with electronic adj4 security adj4 circuit) | USPAT | OR | OFF | 2005/06/12 16:20 |
| S28<br>3 | 0   | smart adj card with external adj security adj circuit   | USPAT | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |      |  |                              |    |     |                  |
|----------|------|--|------------------------------|----|-----|------------------|
| S28<br>4 | 0    | smart adj card and external adj security adj circuit                                       | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S28<br>5 | 1    | external adj security adj circuit  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S28<br>6 | 2    | removable adj security adj circuit   | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S28<br>7 | 0    | (removable external detached) adj security adj circuit and smart adj card                  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S28<br>8 | 3    | (removable external detached) adj security adj circuit                                     | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S28<br>9 | 270  | 713/182.ccls.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>0 | 66   | 713/182.ccls. and smart adj card   | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>1 | 0    | (dual two double) adj smart adj card adj (authentic\$3 verif\$5)                           | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>2 | 0    | (dual two double " more than one") adj smart adj card adj (authentic\$3 verif\$5)          | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>3 | 36   | (dual two double " more than one") adj smart adj card                                      | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>4 | 5    | ("5979773").URPN.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>5 | 5    | ("5979773").URPN.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>6 | 42   | ("4879645").URPN.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>7 | 42   | ("4879645").URPN.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>8 | 1    | ("4879645").PN.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S29<br>9 | 42   | ("4879645").URPN.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S30<br>0 | 42   | ("4879645").URPN.  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S30<br>1 | 7    | ("4352011"   "4439670"   "4453074"   "4484067"   "4558176"   "4583196"   "4740890").PN.    | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/06/12 16:20 |
| S30<br>2 | 2    | S299 and smart adj card  | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S30<br>3 | 1079 | (smart adj card smart-card smart near1 card) adj (reader terminal)                         | USPAT                        | OR | OFF | 2005/06/12 16:20 |
| S30<br>4 | 0    | (smart adj card smart-card smart near1 card) adj (reader terminal) with request with count | USPAT                        | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |       |   |       |    |     |                  |
|----------|-------|---|-------|----|-----|------------------|
| S30<br>5 | 25    | (smart adj card smart-card smart near1 card) adj (reader terminal) with request   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S30<br>6 | 5     | (smart adj card smart-card smart near1 card) adj (reader terminal) with request and count   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S30<br>7 | 3     | (smart adj card smart-card smart near1 card) adj (reader terminal) with count   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S30<br>8 | 3     | (smart adj card smart-card smart near1 card) with (reader terminal) with count  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S30<br>9 | 91384 | (reader terminal) access with count   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>0 | 3097  | S309 and (smart adj card smart-card smart near1 card)   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>1 | 1     | (reader terminal) adj access with count   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>2 | 19    | (reader terminal device) adj access with count  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>3 | 1     | S312 and (smart adj card smart-card smart near1 card)   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>4 | 1     | (reader terminal device) adj access with count and (smart adj card smart-card smart near1 card)   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>5 | 326   | (removable external detached) adj security  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>6 | 2     | S315 with (smart adj card smart-card smart near1 card) adj (reader terminal)  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>7 | 9     | S315 and (smart adj card smart-card smart near1 card) adj (reader terminal)   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>8 | 1     | (removable external detached) adj security with count\$3  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S31<br>9 | 38    | (removable external detached) adj security with (count\$3 access\$3)  | USPAT | OR | OFF | 2005/06/12 16:20 |
| S32<br>0 | 1     | S319 and (smart adj card smart-card smart near1 card) adj (reader terminal)   | USPAT | OR | OFF | 2005/06/12 16:20 |
| S32<br>1 | 1     | (removable external detached) adj security with (count\$3 access\$3) and (smart adj card smart-card smart near1 card) adj (reader terminal) | USPAT | OR | OFF | 2005/06/12 16:20 |
| S32<br>2 | 1     | count\$3 with ((reader terminal) adj access )   | USPAT | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |       |   |               |    |     |                  |
|----------|-------|---|---------------|----|-----|------------------|
| S32<br>3 | 1     | count\$3 with ((reader terminal device) adj (request access)).ti.   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S32<br>4 | 70    | count\$3 with ((reader terminal device) adj (request access))   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S32<br>5 | 1908  | count\$3 with (request access) with (reader terminal device)  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S32<br>6 | 36    | count\$3 adj (request access) with (reader terminal device)   | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S32<br>7 | 14    | ("6018717").URPN.   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S32<br>8 | 14    | ("6018717").URPN.   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S32<br>9 | 14    | ("6018717").URPN.   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S33<br>0 | 1     | authenticat\$3 adj counter with (terminal device reader)  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S33<br>1 | 0     | authenticat\$3 adj counter.ti.  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S33<br>2 | 7     | authenticat\$3 adj counter  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S33<br>3 | 10    | (US-4879645-\$ or US-5845069-\$ or US-5979773-\$ or US-6065679-\$ or US-6539093-\$ or US-6606744-\$ or US-6694436-\$ or US-6018717-\$ or US-6470451-\$ or US-6577733-\$).did. | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S33<br>4 | 4     | S333 and count  | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S33<br>5 | 60593 | counter with (terminal device reader)   | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S33<br>6 | 3     | counter near2 (terminal device reader) near4 predetermined near2 (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S33<br>7 | 6     | count\$3 with request with (terminal device reader) with(predetermined pre-determined)with (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S33<br>8 | 0     | count\$3 adj request with (program terminal device reader) with(predetermined pre-determined) with (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S33<br>9 | 42    | count\$3 adj request with (program terminal device reader)  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S34<br>0 | 272   | counter near2 (terminal device reader) near4 predetermined  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |      |  |                    |    |     |                  |
|----------|------|--|--------------------|----|-----|------------------|
| S34<br>1 | 170  | count\$3 with (request execution) with<br>(terminal device reader)<br>with(predetermined pre-determined) | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:20 |
| S34<br>2 | 9    | ("5940589").URPN.  | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S34<br>3 | 2    | "713".clas. and (manag\$4 with secure<br>with terminal) and (smart adj4<br>card\$4)                      | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S34<br>4 | 27   | "04328"  | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:20 |
| S34<br>5 | 0    | "04328"  | EPO                | OR | OFF | 2005/06/12 16:20 |
| S34<br>6 | 27   | "04328"  | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:20 |
| S34<br>7 | 2    | "713".clas. and (manag\$4 with secure<br>with terminal) and (smart adj4<br>card\$4)                      | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:20 |
| S34<br>8 | 1    | "4328"   | EPO                | OR | OFF | 2005/06/12 16:20 |
| S34<br>9 | 0    | WO000954328  | EPO                | OR | OFF | 2005/06/12 16:20 |
| S35<br>0 | 1    | WO000004328A1  | EPO                | OR | OFF | 2005/06/12 16:20 |
| S35<br>1 | 0    | WO009504328  | EPO                | OR | OFF | 2005/06/12 16:20 |
| S35<br>2 | 0    | 95/04328   | EPO                | OR | OFF | 2005/06/12 16:20 |
| S35<br>3 | 1    | "4328"   | EPO                | OR | OFF | 2005/06/12 16:20 |
| S35<br>4 | 515  | "4328"   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S35<br>5 | 4    | "9504328"  | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S35<br>6 | 1    | external adj security adj circuit  | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S35<br>7 | 1    | external adj security adj (circuit<br>deevice)   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S35<br>8 | 15   | external adj security adj (circuit<br>device)  | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S35<br>9 | 2554 | tamada.in.   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S36<br>0 | 210  | tamada.in. and toshiba.as.   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S36<br>1 | 20   | tamada.in. and toshiba.as.   | USPAT              | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |    |  |   |    |     |                  |
|----------|----|--|---|----|-----|------------------|
| S36<br>2 | 0  | 713/200.ccls. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S36<br>3 | 0  | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$5 with electronic ad4 security adj4 circuit) | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S36<br>4 | 0  | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$4 with security with circuit)                | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S36<br>5 | 0  | (manag\$4 with secure with terminal) and (smart adj4 card\$4) and (remov\$4 with security with circuit)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S36<br>6 | 1  | (secure with terminal) and (smart adj4 card\$4) and (remov\$4 with security with circuit)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S36<br>7 | 75 | (secure with terminal) and (smart adj4 card\$4) and (security with circuit)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S36<br>8 | 0  | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4) and (secret adj4 code)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:20 |
| S36<br>9 | 0  | Gemplus.as. and removable adj security adj circuit   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S37<br>0 | 0  | (two (more near2 one))adj (smart IC)adj card with external adj security adjcircuit                                     | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S37<br>1 | 0  | (smart IC)adj card with external adj security adj circuit  | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S37<br>2 | 0  | (smart IC)adj card with external adj security adj (circuit device card)  | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S37<br>3 | 0  | (secure adj application adj micromodule) with smart adj card   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S37<br>4 | 0  | (secure adj application adj micromodule)   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S37<br>5 | 0  | (secure adj application adj ((micromodule)micro-module))   | USPAT   | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |       |   |               |    |     |                  |
|----------|-------|---|---------------|----|-----|------------------|
| S37<br>6 | 0     | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$5 with electronic ad4 security<br>adj4 circuit)           | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S37<br>7 | 0     | (manag\$4 with secure with terminal)<br>and (smart adj4 card\$4) and<br>(remov\$5 with electronic adj4 security<br>adj4 circuit)          | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S37<br>8 | 0     | smart adj card with external adj<br>security adj circuit  | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S37<br>9 | 0     | smart adj card and external adj<br>security adj circuit   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>0 | 0     | (removable external detached) adj<br>security adj circuit and smart adj card  | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>1 | 0     | (dual two double) adj smart adj card<br>adj (authentic\$3 verif\$5)   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>2 | 0     | (dual two double " more than one")<br>adj smart adj card adj (authentic\$3<br>verif\$5)   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>3 | 1079  | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>4 | 0     | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)<br>with request with count  | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>5 | 25    | (smart adj card smart-card smart<br>near1 card) adj (reader terminal)<br>with request   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>6 | 91384 | (reader terminal) access with count   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>7 | 3097  | S386 and (smart adj card smart-card<br>smart near1 card)  | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>8 | 326   | (removable external detached) adj<br>security   | USPAT         | OR | OFF | 2005/06/12 16:20 |
| S38<br>9 | 1908  | count\$3 with (request access) with<br>(reader terminal device)   | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S39<br>0 | 0     | authenticat\$3 adj counter.ti.  | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S39<br>1 | 60593 | counter with (terminal device reader)   | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S39<br>2 | 0     | count\$3 adj request with (program<br>terminal device reader)<br>with(predetermined pre-determined)<br>with (halt\$3 stop\$4 restrict\$3) | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |
| S39<br>3 | 27    | "04328"   | USPAT;<br>EPO | OR | OFF | 2005/06/12 16:20 |

## EAST Search History

|          |      |   |                    |    |     |                  |
|----------|------|---|--------------------|----|-----|------------------|
| S39<br>4 | 0    | "04328"   | EPO                | OR | OFF | 2005/06/12 16:20 |
| S39<br>5 | 0    | WO000954328   | EPO                | OR | OFF | 2005/06/12 16:20 |
| S39<br>6 | 0    | WO009504328   | EPO                | OR | OFF | 2005/06/12 16:20 |
| S39<br>7 | 0    | 95/04328  | EPO                | OR | OFF | 2005/06/12 16:20 |
| S39<br>8 | 1    | "4328"  | EPO                | OR | OFF | 2005/06/12 16:20 |
| S39<br>9 | 1    | external adj security adj (circuit<br>device)   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S40<br>0 | 2554 | tamada.in.  | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:20 |
| S40<br>1 | 1    | ("5845069").PN.   | USPAT;<br>USOCR    | OR | OFF | 2005/06/12 16:20 |
| S40<br>2 | 1    | ("4879645").PN.   | USPAT;<br>USOCR    | OR | OFF | 2005/06/12 16:20 |
| S40<br>3 | 1    | ("5845069").PN.   | USPAT;<br>USOCR    | OR | OFF | 2005/06/12 16:20 |
| S40<br>4 | 1    | ("6539093").PN.   | USPAT;<br>USOCR    | OR | OFF | 2005/06/12 16:20 |
| S40<br>5 | 1    | external adj security adj circuit   | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S40<br>6 | 1    | ("4879645").PN.   | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S40<br>7 | 1    | (reader terminal) adj access with<br>count  | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S40<br>8 | 19   | (reader terminal device) adj access<br>with count   | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S40<br>9 | 1    | S408 and (smart adj card smart-card<br>smart near1 card)  | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S41<br>0 | 1    | (reader terminal device) adj access<br>with count and (smart adj card<br>smart-card smart near1 card) | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S41<br>1 | 1    | (removable external detached) adj<br>security with count\$3   | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S41<br>2 | 38   | (removable external detached) adj<br>security with (count\$3 access\$3)                               | USPAT              | OR | OFF | 2005/06/12 16:20 |
| S41<br>3 | 1    | S412 and (smart adj card smart-card<br>smart near1 card) adj (reader<br>terminal)                     | USPAT              | OR | OFF | 2005/06/12 16:20 |



## EAST Search History

|          |    |   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S41<br>4 | 1  | (removable external detached) adj security with (count\$3 access\$3) and (smart adj card smart-card smart near1 card) adj (reader terminal) | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S41<br>5 | 1  | count\$3 with ((reader terminal) adj access )   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S41<br>6 | 1  | count\$3 with ((reader terminal device) adj (request access)).ti.   | USPAT   | OR | OFF | 2005/06/12 16:20 |
| S41<br>7 | 1  | authenticat\$3 adj counter with (terminal device reader)  | USPAT;<br>EPO   | OR | OFF | 2005/06/12 16:21 |
| S41<br>8 | 1  | "4328"  | EPO   | OR | OFF | 2005/06/12 16:21 |
| S41<br>9 | 1  | WO000004328A1   | EPO   | OR | OFF | 2005/06/12 16:21 |
| S42<br>0 | 1  | external adj security adj circuit   | USPAT;<br>EPO; JPO                                      | OR | OFF | 2005/06/12 16:21 |
| S42<br>1 | 2  | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)   | USPAT   | OR | OFF | 2005/06/12 16:21 |
| S42<br>2 | 6  | (manag\$4 with secure with terminal) and (smart adj4 card\$4)   | USPAT   | OR | OFF | 2005/06/12 16:21 |
| S42<br>3 | 9  | (secure adj terminal) and (smart adj card\$4) and (security adj circuit) and (count\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:21 |
| S42<br>4 | 4  | (secure adj terminal) and (smart adj card\$4) and (circuit) and (counter)   | USPAT;<br>EPO   | OR | OFF | 2005/06/12 16:21 |
| S42<br>5 | 16 | "696016"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:21 |
| S42<br>6 | 31 | "157303"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:21 |
| S42<br>7 | 40 | "0157303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:21 |
| S42<br>8 | 16 | tamada-masuo.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/06/12 16:21 |

## EAST Search History

|          |    |  |       |    |     |                  |
|----------|----|--|-------|----|-----|------------------|
| S42<br>9 | 2  | (secure with terminal) and (smart adj4 card\$4) and (pin) and (verif\$6 with certificate) and (divid\$4 with class\$2) | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>0 | 6  | 713/200.ccls. and (secure with terminal) and (smart adj4 card\$4) and (secret with code)                               | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>1 | 6  | (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>2 | 2  | removable adj security adj circuit   | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>3 | 8  | (smart IC) adj card with removable adj security  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>4 | 3  | (removable detachable)adj secu\$5 adj circuit  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>5 | 5  | (smart IC)adj card with external adj security adjcircuit   | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>6 | 13 | external adj security adj (circuit device card)  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>7 | 14 | (secure adj application adj ((micromodule)micro-module) SAM )adj circuit   | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>8 | 2  | ("6532122").URPN.  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S43<br>9 | 2  | removable adj security adj circuit   | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>0 | 3  | (removable external detached) adj security adj circuit   | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>1 | 66 | 713/182.ccls. and smart adj card   | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>2 | 36 | (dual two double " more than one") adj smart adj card  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>3 | 5  | ("5979773").URPN.  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>4 | 5  | ("5979773").URPN.  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>5 | 42 | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>6 | 42 | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>7 | 42 | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/12 16:21 |
| S44<br>8 | 42 | ("4879645").URPN.  | USPAT | OR | OFF | 2005/06/12 16:21 |

## EAST Search History

|          |    |   |                              |    |     |                  |
|----------|----|---|------------------------------|----|-----|------------------|
| S44<br>9 | 7  | ("4352011"   "4439670"   "4453074"   "4484067"   "4558176"   "4583196"   "4740890").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/06/12 16:21 |
| S45<br>0 | 2  | S447 and smart adj card   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>1 | 5  | (smart adj card smart-card smart near1 card) adj (reader terminal) with request and count   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>2 | 3  | (smart adj card smart-card smart near1 card) adj (reader terminal) with count   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>3 | 3  | (smart adj card smart-card smart near1 card) with (reader terminal) with count  | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>4 | 19 | (reader terminal device) adj access with count  | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>5 | 2  | S388 with (smart adj card smart-card smart near1 card) adj (reader terminal)  | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>6 | 9  | S388 and (smart adj card smart-card smart near1 card) adj (reader terminal)   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>7 | 38 | (removable external detached) adj security with (count\$3 access\$3)  | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>8 | 70 | count\$3 with ((reader terminal device) adj (request access))   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S45<br>9 | 36 | count\$3 adj (request access) with (reader terminal device)   | USPAT;<br>EPO                | OR | OFF | 2005/06/12 16:21 |
| S46<br>0 | 14 | ("6018717").URPN.   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S46<br>1 | 14 | ("6018717").URPN.   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S46<br>2 | 14 | ("6018717").URPN.   | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S46<br>3 | 7  | authenticat\$3 adj counter  | USPAT;<br>EPO                | OR | OFF | 2005/06/12 16:21 |
| S46<br>4 | 10 | (US-4879645-\$ or US-5845069-\$ or US-5979773-\$ or US-6065679-\$ or US-6539093-\$ or US-6606744-\$ or US-6694436-\$ or US-6018717-\$ or US-6470451-\$ or US-6577733-\$).did. | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S46<br>5 | 4  | S464 and count  | USPAT                        | OR | OFF | 2005/06/12 16:21 |
| S46<br>6 | 3  | counter near2 (terminal device reader) near4 predetermined near2 (halt\$3 stop\$4 restrict\$3)  | USPAT;<br>EPO                | OR | OFF | 2005/06/12 16:21 |

## EAST Search History

|          |     |  |                    |    |     |                  |
|----------|-----|--|--------------------|----|-----|------------------|
| S46<br>7 | 6   | count\$3 with request with (terminal device reader) with(predetermined pre-determined)with (halt\$3 stop\$4 restrict\$3) | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:21 |
| S46<br>8 | 42  | count\$3 adj request with (program terminal device reader)   | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:21 |
| S46<br>9 | 9   | ("5940589").URPN.  | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S47<br>0 | 2   | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S47<br>1 | 27  | "04328"  | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:21 |
| S47<br>2 | 2   | "713".clas. and (manag\$4 with secure with terminal) and (smart adj4 card\$4)  | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:21 |
| S47<br>3 | 4   | "9504328"  | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:21 |
| S47<br>4 | 15  | external adj security adj (circuit device)   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:21 |
| S47<br>5 | 20  | tamada.in. and toshiba.as.   | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S47<br>6 | 113 | (two (more near2 one))adj (smart IC)adj card   | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S47<br>7 | 170 | count\$3 with (request execution) with (terminal device reader) with(predetermined pre-determined)                       | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:21 |
| S47<br>8 | 206 | Gemplus.as.  | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S47<br>9 | 270 | 713/182.ccls.  | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S48<br>0 | 272 | counter near2 (terminal device reader) near4 predetermined   | USPAT;<br>EPO      | OR | OFF | 2005/06/12 16:21 |
| S48<br>1 | 210 | tamada.in. and toshiba.as.   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:21 |
| S48<br>2 | 515 | "4328"   | USPAT;<br>EPO; JPO | OR | OFF | 2005/06/12 16:21 |
| S48<br>3 | 1   | (two (more near2 one))adj (smart IC)adj card same counter  | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S48<br>4 | 131 | "smart card" same counter  | USPAT              | OR | OFF | 2005/06/12 16:21 |
| S48<br>5 | 700 | widmer.in.   | EPO;<br>DERWENT    | OR | OFF | 2006/11/16 12:02 |
| S48<br>6 | 5   | widmer near michel.in.   | EPO;<br>DERWENT    | OR | OFF | 2006/11/16 12:10 |

## EAST Search History

|          |     |                        |                    |    |     |                  |
|----------|-----|------------------------|--------------------|----|-----|------------------|
| S48<br>7 | 0   | widmer near michel.in. | US-PGPUB;<br>USPAT | OR | OFF | 2006/11/16 12:09 |
| S48<br>8 | 516 | widmer.in.             | USPAT              | OR | OFF | 2006/11/16 12:11 |
| S48<br>9 | 0   | widmer.in. and france  | USPAT              | OR | OFF | 2006/11/16 12:11 |